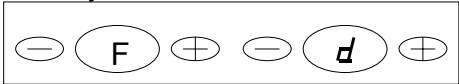


Service Specifications

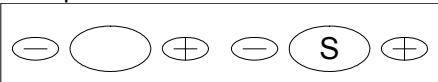
WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

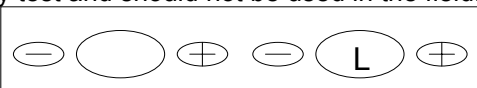
3. Release the refrigerator door light switch.
4. The control will display Fd to confirm entry into the Forced Defrost Mode.



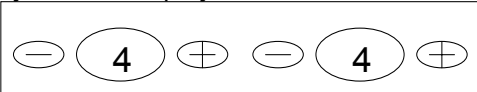
5. Entry is confirmed by pressing the Refrigerator Down key once more. The unit is off and in the Defrost Mode.  
**Note:** All control functions will be turned off (Compressor, Defrost, Evaporator Fan, the damper will remain in its current position)
6. The control will default to the short run period test as shown here



**Note:** You can toggle between the (S)hort and (L)ong test mode by pressing the Refrigerator UP Key. Long Test mode is used for factory test and should not be used in the field.



7. Once the desired mode is displayed, confirm the forced defrost by pressing the Refrigerator down Key once. The defrost will begin immediately and the display will return to a normal operating display with set point values.



8. Close the Refrigerator door(s). You are in the defrost mode  
**Note:** Forced Defrost mode can be exited at any time prior to step 7 by closing the Refrigerator Door(s).

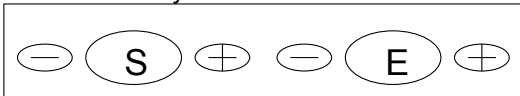
Service Test Mode:

The service test functions are performed using the refrigerator display and keypad. Enter the Service Test Mode by performing the following sequence of events

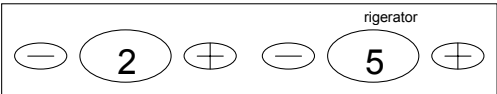
1. Hold the refrigerator door light switch closed.
2. Press the Refrigerator Temperature Up keypad 3 times consecutively.

**Note:** The 3 Keystrokes must be done consecutively and within 10 seconds.

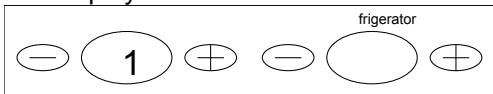
3. Release the refrigerator door light switch.
4. The control will display SE to confirm entry into the service mode.



5. Entry to the Service Menu is confirmed by pressing the Refrigerator Up key once more.
6. The control will display its software version for 3 seconds.



7. Following the software revision display the freezer display will read the first test number in the diagnostic tree. The refrigerator display will be blank



**Note:** All control functions will be turned off (Compressor, Defrost, Evaporator Fan, the damper will remain in its current position)

8. You are now in the SERVICES TEST operational mode and may use the diagnostic tests  
**The Service Test Mode can be exited at any time by closing the Refrigerator Door(s).**

Side-by-Side Refrigerator—Technical Information

ASD2626HEB	ASD2626HEB0, ASD2626HEQ	ASD2626HEQ0,
ASD2626HES	ASD2626HES0, ASD2626HEW	ASD2626HEW0,
ASD2628HEB	ASD2628HEB0, ASD2628HEQ	ASD2628HEQ0,
ASD2628HES	ASD2628HES0, ASD2628HEW	ASD2628HEW0

Due to a possibility of personal injury or property damage, always contact an authorized technician for service or repair of this refrigerator.

CAUTION

All safety information must be followed as provided in Service Manual 16022689.

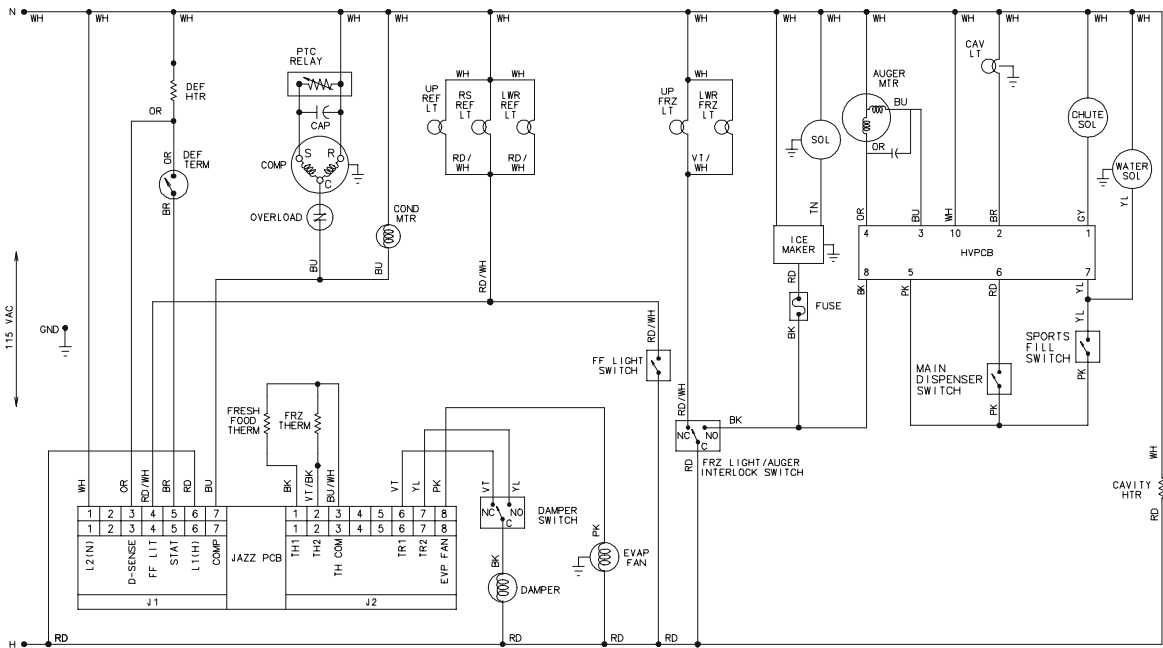
WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless testing is required. Discharge capacitors through a 10,000 ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

No-Load Performance, Controls in Normal Position															
	Kw/24 hr ±0.4			Percent Run Time ±10%			Cycles/24 hr ±25%			Refrigerator Center Compartment Average Food Temperature ±3°F			Freezer Compartment Average Food Temperature ±3°F		
Ambient °F	70°	90°	110°	70°	90°	110°	70°	90°	110°	70°	90°	110°	70°	90°	110°
26 cu ft	1.2	1.85	2.6	35	55	75	24	24	19	37	39	42	0	0	-2

Temperature Relationship Test Chart												
	Evaporator Outlet ±3°F		Evaporator Inlet ±3°F		Suction Line ±7°F		Average Total Wattage ±10%		Suction Pressure ±2 PSIG	Head Pressure ± 5 PSIG		
Ambient °F	70°	90°	70°	90°	70°	90°	70°	90°	70°	90°		
26 cu ft	-15	-15	-16	-16	72	98	132	138	6"(Vac.)	0	87	137

Schematic



Component Specifications

⚠ WARNING

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Component	Specifications all parts 115VAC/60HZ unless noted	
Compressor run capacitor	Volt..... Capacitance .....	220 VAC 15 µfd ± 10%
Compressor	BTUH ..... Watt ..... Current Lock rotor ..... Current Full load ..... Resistance Run windings..... Resistance Start windings.....	905 BTUH 60 Hz / 153 watts 19.0 amps± 15% 1.26 amps± 15% 3.33 ohms± 15% 4.28 ohms± 15%
Electric damper control	Maximum closing time Temperature Rating RPM	36 seconds 20°F- 110°F 1
Thermistor	Temperature 77°F..... 36°F ..... 0°F.....	Resistance 10,000 ohms± 1.8% 29,500 ohms± 1.0% 86,300 ohms± 1.8%
Condenser motor	Rotation (facing end opposite shaft) RPM..... Watt..... Current .....	Clockwise 1250 RPM 4.2 watts±15%@115VAC 0.63 amps± 15%@115VAC
Evaporator fan motor	Rotation (facing end opposite shaft) RPM..... Watt..... Note: Fan blade must be fully seated on shaft to achieve proper airflow.	Clockwise 2800 RPM 5.9 ±15% watts@115VAC
Overload/Relay	Ult. trip amps @ 158°F (70°C) ..... Close temperature ..... Open temperature..... Short time trip (seconds)..... Short time trip (amps @77°F (25°C) ..	2.67 amps± 15% 142°F ±9°F 284°F ±9°F 10 seconds ±5 11 amps ±2amps
Thermostat (Defrost)	Volt ..... Watt ..... Current ..... Resistance across terminals: Above 42°F ±5° ..... Below 12°F ±7° .....	120/240 VAC 495 watts 5.8/2.9 amps  Open Closed
Evaporator heater	Volt..... Wattage..... Resistance .....	115 VAC 450 ±5% watts @ 115VAC 29 ±7.5% ohms
Control board	Volt.....	120VAC, 60 HZ See Control board troubleshooting section
Auger Motor	Rotation (facing end opposite shaft)  RPM .....	Power to blue and white is clockwise. Power to orange and white is counterclockwise  17± 3 RPM
Water Valve (Primary) Water Valve (Secondary)	Watts Watts	Brown side 35w, Yellow side 20w Brown side 35w, Yellow side 20w
Light switch	Type..... Volt..... Current.....	SPST NC 125/250 VAC 8/4 amps
Light switch / Interlock	Type..... Volt..... Current.....	SPDT NO/NC 125/250 VAC 8/4 amps
Solenoid (Ice Chute)	Resistance across leads.....	101ohms ± 10%


Service Specifications

⚠ WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

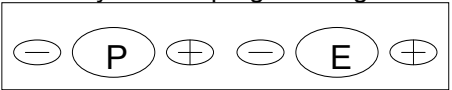
Programming Mode:


**Note:** The Program Code is located on the Serial Plate on this unit after the word Code.

- 1.Open the Fresh Food door and hold the Fresh Food door light switch closed while pushing the Freezer Temperature Down  Key pad 3 times consecutively.

**Note:** The 3 Keystrokes must be done consecutively and within 10 seconds.

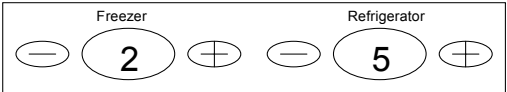
- 2.Release the Fresh Food door light switch.
- 3.The control will display PE to confirm entry into the programming mode.





- 4.Entry is confirmed by pressing the Freezer Down  key once more.

**Note:** All control functions will be turned off (Compressor, Defrost, Evaporator Fan, the damper will remain in its current position)

- 5.The control will display the current Program Code. This value should be validated with the Program Code printed on the unit serial plate.



**Note:** If the Program Code is correct, the Programming Mode is exited by closing the Refrigerator door(s).

- 6.To set the desired Program Code number press the Freezer and Refrigerator UP  keys. The corresponding digit will be advanced with each key press.
- 7.Once the desired Program Code is displayed, press the Freezer DOWN  Key until the Program Code begins flashing indicating it has been saved.

**Note:** If you attempt to enter an invalid Program Code the control will not save the new code, but will flash the old code and this will be displayed. (The unit will NOT run with a Program Code of 00).

8. Once the Program Code has been saved the Programming Mode is exited by closing the Refrigerator door(s). If the new code is incorrect this process should be repeated after closing the Refrigerator door(s).

**The Programming mode can be exited at any time by closing the Refrigerator Door(s).**

Defrost Operation:

The Control Board adapts the compressor run time between defrosts to achieve optimum defrost intervals by monitoring the length of time the defrost heater is on.

After initial power up, defrost interval is 4 hours compressor run time. Defrost occurs immediately after the 4 hours.

**Note:** Once unit is ready to defrost there is a 4 minute wait time prior to the beginning of the defrost cycle.


Optimum defrost is 15 minutes. Each additional minute the defrost thermostat remains closed, 1 hr. is subtracted from the previous defrost interval. Each minute the thermostat opens prior to optimum defrost, it extends the next defrost interval 1 hr. When defrost thermostat opens there is a 4-6 minute drip time before compressor restarts or Control Board will terminate defrost at 25 minutes if defrost thermostat has not opened and will reset the defrost interval to the 8 hr. minimum setting.

4 hours of continuous compressor run resets the next defrost interval to 8 hours and will initiate a defrost, if 8 hours of compressor run time has also occurred.

Forced Defrost Mode:

**Power up** Refrigeration mode will occur unless both the cold control and defrost terminator are open, in that case the defrost mode will occur for 2 minutes.

The forced defrost function is performed using the refrigerator display and keypad. Enter the Forced Defrost Mode by performing the following sequence of events:

1. Hold the refrigerator door light switch closed.
2. Press the Refrigerator Temperature Down  keypad 3 times consecutively.

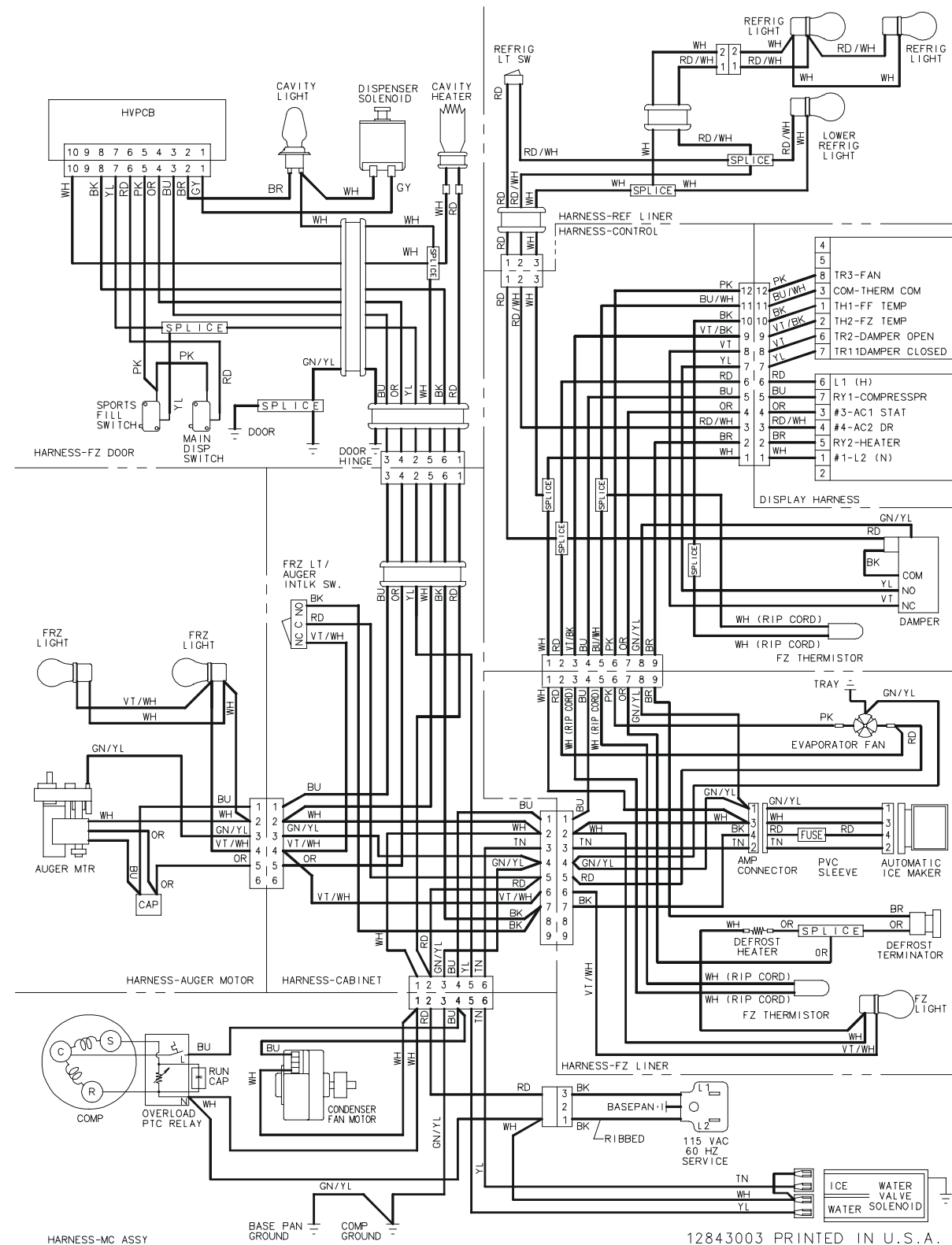
**Note:** The 3 keystrokes must be consecutive and within 10 seconds.

## Wiring Diagram



## WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.






## Service Specifications



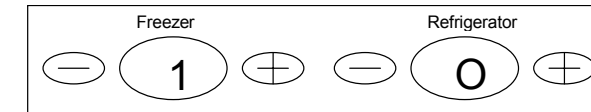
## WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

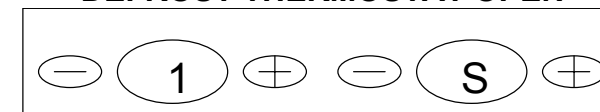
## Service Test 1 – Defrost Thermostat & Defrost Circuit Test

When selected this test will display the state of the defrost thermostat. In order to perform this test the defrost heater will be energized. The test is activated and deactivated using the Refrigerator Up  key. Once activated, this test must be de-activated to move to another test number. The Freezer Up  / Down  keys allow selection of the test to be performed.

This test also allows observation and measurement of proper defrost function. You can observe defrost heat and voltages while the test is activated.




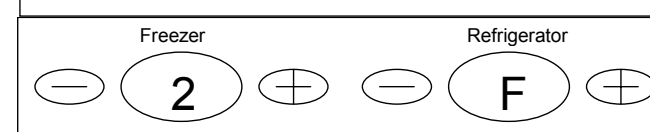
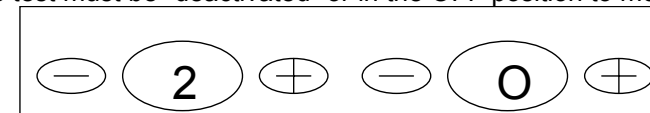
## DEFROST THERMOSTAT OPEN



### DEFROST THERMOSTAT SHORTED (CLOSED)


## Service Test 2 – Compressor/Condenser Fan Test

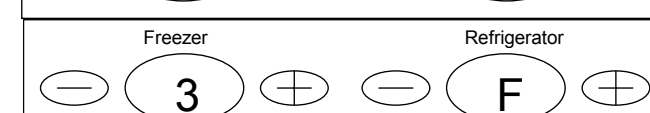
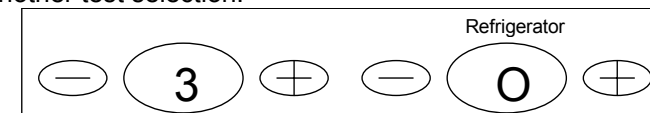
When selected and activated this test will operate the Compressor/Condenser Fan circuit. You should evaluate proper operation of the compressor and condenser fan. The Refrigerator Up  key will toggle between "O" / "F" (ON & OFF) the compressor drive circuit. The test must be "deactivated" or in the OFF position to move to another test selection.



### OBSERVE COMPRESSOR & CONDENSER FAN FUNCTION

### Service Test 3 – Evaporator/Freezer Fan Test

When selected and activated this test will operate the freezer fan. The Refrigerator Up  key will toggle between "O" / "F" (ON & OFF) the fan drive circuit. You will have to inspect the fan for proper function. The test must be "deactivated" or in the OFF position to move to another test selection.




## OBSERVE FAN OPERATION

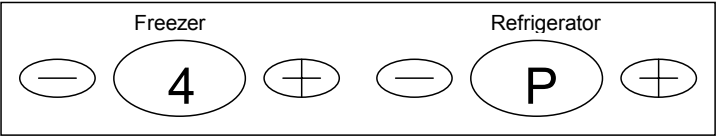
Service Specifications

WARNING

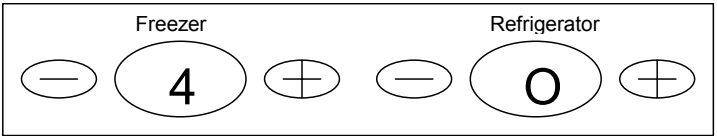
To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

Service Test 4 – Fresh Food Thermistor Test

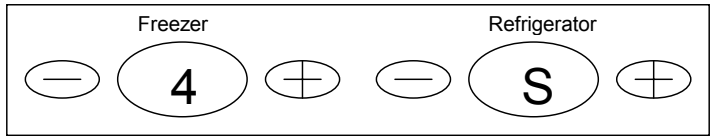
When selected and activated this test will display Pass, Open, Short result for a test on the Fresh Food Thermistor circuit as show below. The test is activated and de-activated via the Refrigerator Up  key, and must be de-activated to move to another test selection.



PASS RESULT




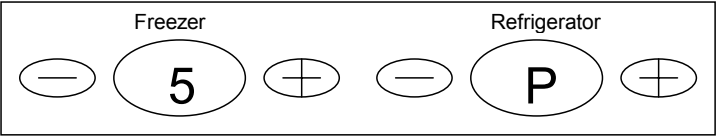
OPEN RESULT



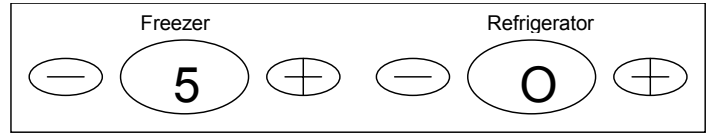
SHORT RESULT

Service Test 5 – Freezer Thermistor Test

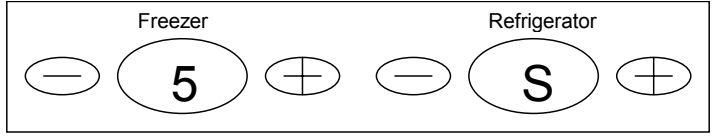
When selected this test will display Pass, Open, Short result for a test on the Freezer Thermistor circuit as show below. The test is activated and de-activated via the Refrigerator Up  key, and must be de-activated to move to another test selection.



PASS RESULT



OPEN RESULT




SHORT RESULT

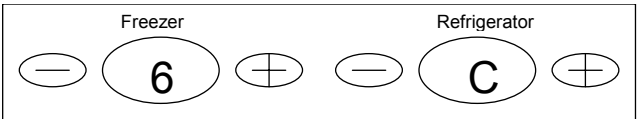
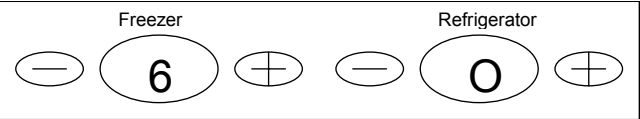
Service Specifications

WARNING

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Service Test 6 – Open Damper Test

When selected this test will indicate the current position “O” / “C” (OPEN / CLOSED) of the refrigerator damper. The Refrigerator Up  key will toggle the damper open and closed. You must allow 1 minute for each attempt to change the damper position. You should observe proper damper function.







OBSERVE DAMPER FUNCTION

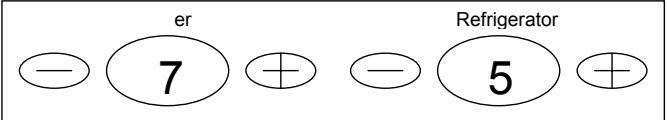
CAUTION

Adjustments of Service Test 7 or Service Test 8 will alter the performance of the unit.

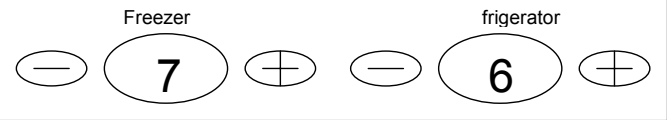
Service Test 7 – FF Performance Adjustment

This test will allow adjustment of the control performance points. Each step will incrementally change the Refrigerator performance warmer (towards 1) or colder towards (9) as adjusted. The default value is 5.

The refrigerator /  Up/Down keys are used to adjust the Performance Offset value. WARMER  (1 2 3 4 (5) 6 7 8 9)  COLDER.



DEFAULT







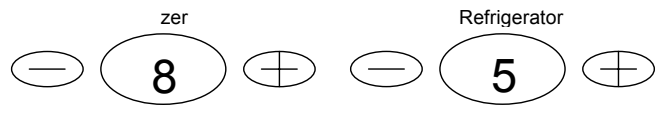
COLDER

The last FF Performance Offset value displayed before leaving test 7 will be saved when the refrigerator door(s) is closed.

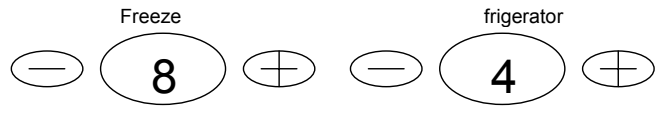
Service Test 8 – FZ Performance Adjustment

This test will allow the adjustment of the control performance points. Each step will incrementally change the Freezer performance warmer (towards 1) or colder towards (9) as adjusted. The default value is 5.

The refrigerator /  Up/Down keys are used to adjust the Performance Offset value. WARMER  (1 2 3 4 (5) 6 7 8 9)  COLDER



DEFAULT



WARMER

The last FZ Performance Offset value displayed before leaving test 8 will be saved when the refrigerator door(s) is closed.